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U. S. Department of Agriculture, BUREAU OF SOILS.

PRELIMINARY ASSIGNMENT OF SOIL SURVEY PARTIES FOR THE FIELD SEASON 1903.

The following assignments of field parties for the season of 1903 are made with the approval of the Secretary of Agriculture. Such modifications and changes as may be called for by the exigencies of the public service will be made from time to time by the Chief of the Bureau of Soils.

Bennett party.—Mr. Bennett, with Mr. J. A. Drake as assistant, will proceed to Brookings, S. Dak., on April 1 and survey as much as possible of Brookings County. On July 1 they will proceed to Parsons, Kans., to survey the middle half (east and west) of the Parsons sheet (U. S. G. S.). On October 1 they will proceed to Russell, Kans., and survey the northern half of the Russell sheet.

F. E. Bonsteel party.—Mr. Bonsteel, with Mr. Carter as assistant, will proceed to Snow Hill, Worcester County, Md., arriving there on or about April 1, and spend nine months in a survey of Worcester County, Md., and Sussex County, Del.

J. A. Bonsteel party.—Mr. Bonsteel, with Mr. O. L. Ayrs as assistant, will, beginning on April 1, make a soil survey of the whole of Long Island.

Burke Party.—Mr. Burke, with Mr. LaMotte Ruhlin as assistant, will proceed on April 1 to Georgetown, Ky., and make a survey of Scott County, then of Mason County, Ky., and on October 1 will go to Shelby County, Mo., to survey that county.

Caine party.—Mr. Caine, beginning April 1, will spend six months in making a survey of as large an area as possible around Fargo, N. Dak., or such other point or points in that State as may be designated by Prof.

Daniel E. Willard, State Geologist. October 1 the party will proceed to Lamar County, Tex., and survey as large an area as possible. Up to July 1 Mr. Caine will employ a driver, when necessary, and on July 1 he will be joined by Mr. Richardson.

Coffey party.—Mr. Coffey, with Mr. Ely as assistant, will proceed to Urbana, Ill., and commencing April 1, survey as large areas as possible of Sangamon, Johnson, Knox, Winnebago, and Ford counties in Illinois, working in close cooperation with Prof. C. G. Hopkins, of the Agricultural Experiment Station, University of Illinois, Mr. Ely being in charge of one party, provided Professor Hopkins furnishes two assistants and pays their expenses.

Fippin party.—Mr. Fippin, with Mr. M. Earl Carr as assistant, will spend six months from April 1, extending the survey of 1899 of the Connecticut Valley up to the northern boundary of Massachusetts, with particular reference to the valleys adjoining the area already surveyed. The party will assemble at Hartford, Conn., and will give the necessary time familiarizing themselves with the types already established in that area. On October 1 the party will survey the southeast portion of Harpers Ferry sheet (U. S. G. S.), Virginia.

Hearn party.—Mr. Hearn, with Mr. Burgess as assistant, will finish the survey of the Nacogdoches and Lufkin areas, Texas, and on July 1 will go to Hall County, Nebr., making a survey of the Grand Island and Wood River sheets (U. S. G. S.), and later will survey as large an area as possible around Norfolk, Nebr.

Holmes party.—Mr. Holmes, with Mr. A. T. Sweet as assistant, will proceed on April 1 to Del Norte, Colo., and spend six months in surveying as large an area as possible of the San Luis Valley. On October 1 the party will proceed to The Needles, Cal., to follow up the Geological Survey between The Needles and Yuma, Ariz.

Jensen party.—Mr. Jensen, with an assistant that will be assigned later, commencing April 1 will spend three months in a soil survey around Salem, Oreg., and then three months around Baker City, Oreg. On October 1

the party will proceed to The Needles, Cal., to assist in the soil survey of the Needles-Yuma area.

J. E. Lapham party.—Mr. Lapham, with Mr. F. N. Meeker as assistant, will proceed to Norfolk, Va., April 1 and make a soil survey of the northern half of the Norfolk sheet (U. S. G. S.). On July 1, the party will go to Asheville, N. C., and spend six months in a survey of the Asheville sheet (U. S. G. S.).

Macy H. Lapham party.—Mr. Lapham (employing a driver, when necessary, until July 1, when he will be joined by Mr. Olshausen) will proceed on April 1 to the Santa Clara Valley, Cal., and survey about 450 square miles. On July 1 the party will take up the Sacramento sheet (U. S. G. S.) and spend six months in the survey of that area.

Mangum party.—Mr. Mangum, with Mr. Root as assistant, will proceed April 1 to Pickens, S. C., to survey the northern half of the Pickens sheet (U. S. G. S.), then the southern half of the Saluda sheet (U. S. G. S.), and then as much as possible of Orangeburg County, S. C.

Marean party.—Mr. Marean, with Mr. Jones as assistant, will proceed on April 1 to Nevada, Story County, Iowa, and survey as much as possible of Story County and Cerro Gordo County, spending six months in these areas, doing about an equal amount of work in each county. On October 1 they will proceed to Marshall County, Ala., to make a survey in that area.

Martin party.—Mr. Martin, with Mr. E. P. Carr as assistant, will proceed on April 1 to Lock Haven, Clinton County, Pa., and survey as large an area as possible in that county. They will proceed on July 1 to Ash-
tabula County, Ohio, to survey as large an area as possible in that county, and on October 1 to Miller County, Ark., to survey an area in that county.

Mesmer party.—Mr. Mesmer, with Mr. McLendon as assistant, will, on the completion of the Los Angeles area, make a survey of as large an area as possible in the Blackfoot area, Idaho. On July 1 the party will start a survey of the irrigable lands of the Lamar sheet (U. S. G. S.), Wyoming, and on October 1, will proceed

to The Needles, Cal., to assist in the survey of the Needles-Yuma area.

Rice party.—Mr. Rice with Mr. Lewis Griswold as assistant, will continue the work in Louisiana in cooperation with Dr. W. C. Stubbs, of the Louisiana Agricultural Experiment Station, and take up the Audubon Park, Baton Rouge, and southern Louisiana areas as arranged with Dr. Stubbs.

Sanchez party.—Mr. Sanchez, with Mr. Neill as assistant, will proceed on April 1 to Provo City, Utah, and make a survey of as large an area as possible of the irrigable lands of that locality. On July 1 they will take up a survey of the irrigable lands of the Milk River district, Montana, and on October 1 the party will proceed to The Needles, Cal., to assist in the survey of the Needles-Yuma area.

Smith party.—Mr. Smith, with Mr. A. E. Kocher as assistant, will proceed on April 1 to Viroqua, Wis., and make a survey of the tobacco areas between Viroqua and Sparta. On July 1 they will proceed to Davidson County, Tenn., and make a survey of as large an area as possible in that locality, and on October 1 they will go to Lauderdale County, Ala.

Wilder party.—Mr. Wilder, with Mr. W. J. Geib as assistant, will on April 1 proceed to Marshall, Lyon County, Minn., and survey as large an area as possible in that county, going on July 1 to Oakland County, Mich., to survey as large an area as possible there. On October 1 the party will proceed to Pikeville, Tenn., and make a survey of that area.

Approved:

JAMES WILSON,

Secretary.

MILTON WHITNEY,

Chief of Bureau.

WASHINGTON, D. C., March 12, 1903.

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U. S. Department of Agriculture